



## 687SVH6R3MFE

SURFACE MOUNT

Parts are RoHS compliant

Date code when parts became RoHS: 1408

### ELECTRICAL SPECIFICATIONS

Capacitance: 680  $\mu$ F

Dissipation Factor: 0.3 Max at 120 Hz and 20°C

Temperature Range: -40°C to +105°C

Impedance: N/A

Tolerance: -20 %, +20 %

WVDC: 6.3 Volts DC

SVDC: 7.9 Volts DC

Ripple Current: 340 mA at 120 Hz and 105°C

Impedance Ratios: -25°C/20°C 4 and -40°C/20°C - 6

Leakage Current: .01CV or 3 $\mu$ A, whichever is greater  
42.84  $\mu$ A after 2 Minutes

Load Life: 2000 hours at 105°C with 100 % of rated voltage and with 0 % of rated ripple current

Capacitance Change:  $\leq$ 30% of initial measured value

Dissipation Factor:  $\leq$ 300% of maximum specified value

Leakage Current:  $\leq$ 100% of maximum specified value

#### Frequency Multipliers:

| 50 HZ | 120 HZ | 400 HZ | 1 KHZ | 10 KHZ | 100 KHZ |
|-------|--------|--------|-------|--------|---------|
| 0.7   | 1      | 1.17   | 1.36  | 1.5    | 1.5     |

#### Temperature Multipliers:

| 45°C | 60°C | 70°C | 65°C | 75°C | 85°C | 105°C | 125°C |
|------|------|------|------|------|------|-------|-------|
| 2    | 1.9  | 1.7  | 1.8  | 1.4  | 1.4  | 1     | 0     |

### PHYSICAL DIMENSIONS

Diameter (D): 8 mm + 0.5 mm

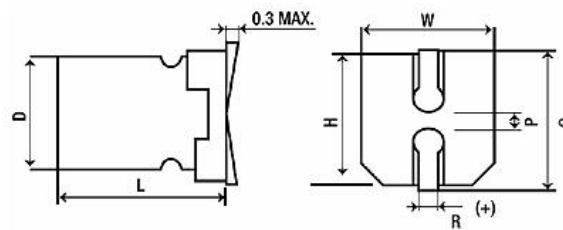
Length (L): 10.5 mm + 0.5 mm

Lead Spacing (S): 3.1 mm +/- 0.2 mm

Lead Wire Diameter (d): 0.95 mm +/- 0.15 mm

Lead Length: 2.9 mm +/- 0.2 mm

Lead Finish: Matte Tin



2400 East Devon Avenue Suite 292 Des Plaines, IL 60018 (847) 675-1760 FAX (847) 673-2850

Illinois Capacitor (HK) Ltd., Tel: 85227930931, Fax: 85227930731, [www.illcap.com.hk](http://www.illcap.com.hk)

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